CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/SVE/Consultants/05/2018-19

Dated: 06.04.2018

To,
Executive Engineer,
Dasarahalli Division,
BBMP, Bangalore.

Sir,

Sub: **Consultancy Services for the work of Improvements to drain 4th, 5th, cross of Bhuvaneshwari Nagara at Bagalagunte in Ward No.14, BBMP, Bangalore.**

Ref: 1) EE/DD/WO/189/2017-18/ Date: 11.01.2018
2) Job Code: 014-18-000013

We are herewith forwarding to **M/s. Sri. Venkateshwara Enterprises,** 1st and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs. 50,17,694/- (Rupees Fifty Lakhs Seventeen Thousand and Six Hundred and Ninety Four only) for further needful.

Thanking you,

Civil-Tech Consultants & Engineers Bangalore

Yours faithfully,
For Civil-Tech Consultants and Engineers

6.4.2018
Chief Executive Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Photograph was taken at the time of Inspection (05.04.2018) Improvements to drain 4th, 5th, cross of Bhuvaneshwari Nagara at Bagalagunte in Ward No.14, BBMP, Bangalore.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
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Tech Consultants & Engineers Bangalore

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/VE/W.No.14/CSR-01/547a/CEMENT/2017-18

Date: 29.12.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Venkateshwara Enterprises,** #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -560 079.
*** Name of Work**	:	Improvements to drain 4th, 5th cross of Bhuvaneshwari Nagara at Bagalagunte in Ward No.14, BBMP, Bangalore.
*** Reference**	:	BBMP/D.Z/AEE/T.D.S.D/PR/189/2017-18 Dated: 18.01.2018
*** Sample ID**	:	Cement
Sample Received on	:	18.01.2018
Period of Testing	:	18.01.2018 to 20.01.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	26.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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VIDYARANI P.K.
Technical Manager

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T-2377

Job No.:CTCE/BBMP/VE/W.No.14/CSR-01/547a/SAND-Gradation/2017-18

20.01.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Venkateshwara Enterprises,** #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -560 079.
* Name of Work	:	Improvements to drain 4th, 5th cross of Bhuvaneshwari Nagara at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/189/2017-18 Dated: 18.01.2018
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	18.01.2018
Date of Testing	:	20.01.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.00	90-100	90-100	90-100	95-100
2.36	79.80	60-95	75-100	85-100	95-100
1.18	48.20	30-70	55-90	75-100	90-100
600 Micron	18.40	15-34	35-59	60-79	80-100
300 Micron	8.90	5-20	8-30	12-40	15-50
150 Micron	7.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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T-2377

Job No.:CTCE/BBMP/VE/W.No.14/CSR-01/547a/AGG/GR/2017-18

20.01.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Venkateshwara Enterprises,** #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -560 079.
* Name of Work	:	Improvements to drain 4th, 5th cross of Bhuvaneshwari Nagara at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/189/2017-18 Dated: 18.01.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	18.01.2018
Date of Testing	:	20.01.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.96	95-100	85-100
20	34.46	30-70	0-20
10	16.36	10-35	0-5
4.75	3.28	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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VIDYARANI P.K.
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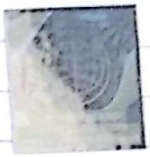
Job No.:CTCE/BBMP/VE/W.No.14/CSR-01/547a/CC Solid Block/2017-18

23.01.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Venkateshwara Enterprises,** #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -560 079.
* Name of Work	:	Improvements to drain 4th, 5th cross of Bhuvaneshwari Nagara at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/189/2017-18 Dated: 18.01.2018
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	21.01.2018
Date of Testing	:	23.01.2018



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	35.17	280.3	3.50	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	34.68	282.5	3.53	
3	Block 3	35.25	284.2	3.55	
4	Block 4	35.69	285.3	3.57	
5	Block 5	34.17	283.5	3.54	
6	Block 6	36.24	284.2	3.55	
7	Block 7	35.24	280.5	3.51	
8	Block 8	35.81	281.3	3.52	

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Job No.: CTCE/BBMP/VE/W.No.14/CSR-11/547a/Cube/2017-18

02.03.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Venkateshwara Enterprises,** #665, 8th Main road, 3rd Block, 3rd Stage, Basaveshwara Nagar, Bangalore -
* Name of the work	:	Improvements to drain 4th, 5th cross of Bhuvaneshwari Nagara at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/D.Z/AEE/T.D.S.D/PR/189/2017-18 Dated: 18.01.2018
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{10}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.03.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.02.2018	02.03.2018	8.162	249.5	11.09
2	02.02.2018	02.03.2018	8.265	263.5	11.71
3	02.02.2018	02.03.2018	8.326	284.2	12.63

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